# PH RI/BRA/FS Documents

# **Updated 2/2/12**

## 12/14/10 EPA/LWG FS Check-in Mtg

- -Takes the place of the scheduled "Alternative Development & Screening Check-in Mtg"
- -LWG presents 4 "FS Tools"
  - 1) Preliminary Capping & Isolation Evaluation
  - 2) Preliminary Methods for Volume Determination
  - 3) Disposal Site Screening
  - 4) PRG & SMA Mapping Uncertainty

# 12/8/10 EPA (Chip & Eric) to LWG (Bob W)- Letter

- -EPA's review of LWG's 11/18/10 response to non-directed RI/BRA comments
- -3 outstanding comments:
  - 1) CSM (linking sources to in-water contamination)
  - 2) data lockdown date
  - 3) inclusion of PDBE fish data in HHBRA

# 12/21/10 EPA (Chip) to LWG Bob W)- Letter

- -EPA's requirements to ensure draft FS is of acceptable quality & on schedule
  - 1) As a result of not presenting Alt Development & Screening 12/14/10..., LWG hasn't met its obligation under AOC
  - 2) Draft FS must evaluate RAAs to achieve all 4/21/10 PRGs
  - 3) EPA is concerned with LWG's "quantitative sensitivity analysis & uncertainty analysis' proposals (as part of Risk Mgmt) will delay the project schedule
  - 4) To meet AOC obligations, the LWG must submit Alt Development & Screening. EPA will not formally respond & LWG should continue preparing the FS.
  - 5) Draft FS due 6/15/11

## 1/12/11 LWG (Bob W) to EPA (Chip)- Letter

- -LWG response to EPA's 12/21/10 letter & EPA 9/27/10 & 12/8/10 RI/BRA letters
- -LWG requests extension to 6/15/11 due date for FS

### 1/25/11 LWG's

-"MNR Empirical LOE Evaluation & Modeling Methods"

# 1/13/11 City (Rick A) to EPA (Chip)- Letter

-City's Alternative/separate view of LWG's 1/12/11 Letter

## 1/28/11 EPA (Chip) to LWG (Bob W)- Letter

-EPA's comments on LWG's 12/14/10 four "FS Tools" presentation

## 2/2/11 LWG (Bob W) to EPA (Chip)- Letter

- -LWG's request for project deliverables extension:
  - -Revised BHHRA- 6/15/11
  - -Revised BERA- 7/27/11
  - -Revised RI 9/28/11
  - -Draft FS- 12/14/11

# 2/25/11 EPA (Chip & KK) to LWG (Bob W)- Letter

- -Reply to LWG's 1/12 & 2/2/11 letters requesting project schedule extension
- -EPA directs LWG to submit:
  - -Revised BHHRA- 5/2/11..., but submit tables & calculations for combined adult child scenarios, evaluation of PBDE, & breast milk scenarios by 3/17/11
  - -Revised BHHRA- 7/5/11
  - -Revised RI-
    - -EPA suggests a quicker review of RI by LWG submitting the rpt in sections. If LWG agrees, EPA accepts suggestion, complete RI is due 9/28/11. EPA directs LWG to submit schedule starting 3/21/11 thru 7/5/11 for preliminary revised sections.
    - -If LWG doesn't accept EPA's suggestion..., RI due 8/1/11

# -Remedial Alternative Development & Screening-

- -Stipulated are accruing since 12/14/10
- -If LWG submits alternative screening analysis by 4/1/11, EPA may not assess penalties
- -If LWG doesn't submit alternative screening analysis by 4/1, then EPA may take over the work
- -EPA expects LWG to submit: site-wide GRAs..., site-wide technology screening for GRAs..., assemble & screen site-wide RAAs..., then evaluate each site-wide GRA, technology, & RAA for each AOPC.
- -EPA is not requiring LWG to submit AOPC to SMA conversion as part of the alternative screening analysis, but expects LWG to present 3 examples of AOPC to SMA conversion by 8/4/11
- -Draft FS- 11/15/11
  - -Check-in mtg on key FS elements (including RALs) no later than 6/22/11
  - -Include all EAs in draft FS

# 3/16/11 LWG (Jen W) to EPA (Chip & KK)- e-mail transmittal

-LWG's 3/16/11 "<u>Draft Identification of "COCs" & Contaminant Mobility Evaluation Criteria for the Draft FS</u>" (1<sup>st</sup> of 5)

## 3/16/11 EPA/LWG- mtg

-Project schedule

# 3/17/11 EPA (Chip) to LWG (Bob W & Jim M)- e-mail

- -Revised RI- LWG doesn't want to submit RI in phases. New due date is 8/29/11
- -Draft FS- still due 11/15/11

## 3/17/11 LWG (

-Tables & calculation on 1) combined adult/child scenarios..., 2) evaluation of PBDE..., & 3) breast milk scenario

# 3/17/11 EPA (KK) to TCT- e-mail

- -KK transmits 3 LWG FS Tools memos (2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> of 5):
  - 1) Draft Mitigation Determination Approach for Use in the FS
  - 2) Treatment Technology Evaluation Tools
  - 3) Draft FS Costing Approach Memo

# 3/18/11 LWG (Bob W) to EPA (Chip & KK)- Letter

- -LWG will comply with schedule in EPA's 3/17 e-mail:
  - -Revised RI 8/29/11
  - -<u>Draft FS</u>- 11/15/11

# 3/28/11 EPA (KK) to EPA FS Team- e-mail

-KK's draft site-wide technology & alternative screen

# 3/30/11 LWG (Bob W) to EPA Chip & KK)- Letter

LWG response to EPA's 3/16 letter re: "Chemical" vs "Contaminant"

# 3/31/11 LWG (Jen W) to EPA (Chip & KK)- e-mail

-LWG's 3/31/11 "Dredging Water Quality Evaluation" (5<sup>th</sup> of 5)

# 4/6/11 LWG (Jen W) to EPA (Chip/KK)- e-mail

-LWG's response to EPA's 3/9/11 comment letter on LWG's 2/23/11 MNR Modeling Slides

# 4/6/11 LWG (Jen W) to EPA (Chip & KK)- e-mail

-LWG's 4/6/11 "Alternatives Screening Presentation" prep for 4/12 EPA/LWG mtg

### 4/6/11 EPA/LWG- Mtg

"Alternatives Screening Presentation"

# 4/12/11 LWG/EPA/partners- meeting

-LWG's "Alternative Screening" Mtg

# 4/14/11 LWG (Jen W) to EPA/partners- e-mail

-Addendum to Alternatives screening presentations..., Institutional Controls

# 4/15/11 DEQ JMA) to EPA (KK & Chip)- e-mail

-DEQ (& DSL) comments on LWG's 5 FS Tech Memos

# 4/20/11 DEQ (JMA) to EPA (KK & Chip)- e-mail

-JMA's understanding of definition of "SMA"

## 4/27/11 EPA (Chip & KK) to LWG (Bob W)- Letter

- -EPA's comments on LWG's 5 FS Tools TMs (submitted in 3/11)
- -Directed comments that need to be addressed in draft FS

# 4/29/11 DEQ (JMA) to EPA (KK & Chip)- e-mail

- -DEQ's comments on EPA/partners 4/12/11 FS Mtg
- -DEQ's expectations for 6/22 FS Key Elements mtg

# 5/2/11 LWG (????) to EPA (????)- transmittal

-LWG's 5/2/11 "Draft Final BHHRA"

#### 5/13/11 LWG (Jen W) to EPA/partners- e-mail

- -LWG's response to EPA's 4/27/11 comment letter on LWG's 5 3/11 FS Tools TMs
- -5 buckets of comments

## 5/13/11 EPA (Chip) to LWG (Bob W)- e-mail (Chip forwarded to TCT 5/18)

-EPA's expectation & request for prep material for 6/21-22 FS Key Elements mtg

# 5/26/11 LWG (Bob W) to EPA Chip & KK)- letter

- -"Preparation for June 21 & 22, 2001 Key FS Elements Check-in"
- -LWG's response to EPA's 5/13 expectations & request for prep material for Key FS Elements mtg
- -LWG's bibliography of important issue documents

## 6/21-22/11 EPA/LWG- mtg

-FS Key Elements Mtg

# 7/15/11 EPA (Chip & KK) to LWG (Bob W)- Letter

- -EPA's "feedback & direction" letter on 6/21-22 FS Key Elements Mtg
- -3 major concerns;
  - 1) Approach to MNR (over-reliance on MNR in FS)
  - 2) RALs for only 3contaminants & lack of Alt trying to achieve background
  - 3) Other technical concerns (subsurface sediment contamination, volumes, costs, docks, hot spots)

# 7/21/11 LWG (Jen W) to EPA (KK & Chip)- e-mail

-'Initial Working Responses to EPA FS Key Elements Comments". Feedback on EPA's 7/15 letter

# 7/21/11 EPA (KK & Chip) to LWG (Bob W)- Letter

- -EPA says they agree with calculations & technical findings of 5/2/11 BHHRA, however, the document doesn't satisfactorily address all EPA comments..., & lacks sufficient clarity.
- -EPA intends to modify the 5/2 BHHRA

# 7/22/11 LWG (???) to EPA (???)- transmittal

-LWG's 7/22/11 "Risk Management Recommendations"

# 7/27/11 EPA (KK) to LWG (Bob W)- e-mail

-Discussion document for 7/27 EPA/LWG Alts & RALs mtg

# 7/27/11 LWG (Jen W) to EPA (KK & Chip)- e-mail

-Table capturing resolutions from 7/26(?) call re: EPA's 7/15 letter on FS Key Elements mtg

# 7/28/11 EPA (Chip) to LWG (Jen W)- e-mail

- -EPA review of LWG's 7/27 table.
- -EPA generally agrees with LWG's table except on Comment #16 (dredge volumes)

# 8/11/11 EPA (Chip & KK) to LWG (Bob W)- letter

- -EPA direction re: specific alternatives & RALs for the LWG to use in the FS
- -EPA's table with Alts B, C, D, E, F, & G
- -RALs for total PCBs, B(a)P (Eq), sum DDX, & dioxin

# 8/12/11 EPA (KK) to LWG (???)- e-mail

-???? Referenced in LWG's 8/23 letter???

# 8/23/11 LWG (Bob W) to EPA (Chip & KK)- letter

- -Response to EPA's 8/11/11 letter & KK's 8/12 e-mail
- -LWG will accept EPA's direction..., although they disagree with some of EPA's positions
- -LWG vaguely introduced the notion of schedule delay

# 8/25/11 EPA (Chip) to LWG (Bob W)- letter

-The LWG has until 8/25 to dispute EPA's 8/11 direction. If the LWG doesn't dispute, EPA will assume

the LWG will prepare the draft incorporating the 8/11 direction.

-If the LWG doesn't dispute..., then the LWG can request a extension to the 11/15/11 deadline for submitting the draft FS

# 9/8/11 LWG (Bob W) to EPA (Chip & KK)- letter

-LWG's formal request to delay submittal of draft FS to 3/30/12

# 9/23/11 LWG (Jen W) to EPA (Chip & KK)- e-mail

-LWG Project Schedules supporting 3/30/12 submittal for draft FS & details re: schedule

# 10/7/11 EPA (Chip & KK) to LWG (Bob W)- letter

-EPA's conditional approval to submit draft FS 3/30/12

## 10/13/11 LWG (Bob W) to EPA (Chip & KK)- letter

-Reply to EPA's 10/7 letter & that LWG will comply with conditions

## 10/18/11 Bingham (45 parties) to EPA (Dennis McL)-letter

- -Bingham's concern that FS needs to be technically achievable, sustainable, & capable of withstanding judicial review
- -"RI is out of alignment with other EPA sediment sites"

# 11/2/11 EPA (Dan O) to Bingham (45 parties)- letter

-EPA response to Bingham's 10/18/11 letter

# 11/14/11 4 Wyden, Merkley, Schrader, Blumenauer to EPA (Lisa Jackson)- letter

- -Concern that PH consider economic impacts of PH decisions
- -7 questions following up from 8/11 mtg/boat tour

# 11/22/11 Bingham (45 parties) to EPA (Dan O)- letter

-Follow-up to EPA's 11/2/11 letter

## 12/14/11 EPA (Dennis McL) to Wyden, Merkley, Schrader, Blumenauer-letter

-EPA reply to 4-elected officials' 11/14/11 letter

# 12/14/11 Bingham (SIC, Gunderson, Vigor) to EPA (Dennis McL)- letter

-The Brattle Group white paper "Economic Impacts of remediating the PH Superfund Site"

## 1/16/12 LWG (Bob W) to EPA (Chip & Kristine)- transmittal letter

- -LWG's "Key FS Work Products"
- -Tables, figures & Hot Spot text

## 2/2/12 Willamette Riverkeeper (Travis W) to EPA (Lisa Jackson)- letter

-Travis' response to 4-elected officials 11/14/11 letter & EPA's 12/14/11 response